

Access DB# 95612

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Jila Mohandes Examiner #: 74844 Date: 06-03-03  
Art Unit: 3728 Phone Number 305-7015 Serial Number: 09/603, 222  
Mail Box and Bldg/Room Location: CP2/9822 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: ORTHOTIC DEVICE  
Inventors (please provide full names): Merc I Epstein

Earliest Priority Filing Date: 09/15/1997

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- disc for shoes / orthotics
- disc has 2-6 deg angles ; can be rotated
- balancing disc

09/603, 222

Jila Mohandes

STAFF USE ONLY		Type of Search (703) 305-7015	
Searcher: <u>Julie Walker</u>	NA Sequence (#)	STN	
Searcher Phone #: <u>305-8587</u>	AA Sequence (#) <u>7</u>	Dialog <u>822</u>	
Searcher Location: <u>CP2-2C08</u>	Structure (#)	Questel/Orbit	
Date Searcher Picked Up: <u>6/3/03</u>	Bibliographic <input checked="" type="checkbox"/>	Dr.Link	
Date Completed: <u>6/3/03</u>	Litigation	Lexis/Nexis	
Searcher Prep & Review Time: <u>15m</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems	
Clerical Prep Time:	Patent/Family	WWW/Internet <input checked="" type="checkbox"/>	
Online Time: <u>25m</u>	Other	Other (specify)	

PTO-1590 (8-0) Circular Disc

ALIF

036/159

0135

## PLUS Search Request Form

- Submit one form per case
- Submit cases by 2pm daily, if not, cases will not be scanned until next business day

Date 06/03/03

Serial Number of Application 09/603,222

Name Jila Mohandes

Art Unit 3728

Phone (703) 305-7015

Building (circle one) CP2 CPK1 Floor 9 Room # B22

Number of Results returned (Minimum 50/ Maximum 300) \_\_\_\_\_

Keywords to emphasize

Circular Disc



# STIC Search Report

## EIC 3700

STIC Database Tracking Number: 95612

TO: Jila Mohandesi  
Location: CP2-9B22  
Art Unit: 3728  
Tuesday, June 03, 2003

Case Serial Number: 09/603222

From: Julie Walko *W*  
Location: EIC 3700  
CP2-2C08  
Phone: 305-8587

Julie.walko@uspto.gov

### Search Notes

Jila:

Attached are the results to your request regarding a round, angled orthotic.

I'm not sure I found anything relevant – the priority date on this made it a toughie. But please review the entire packet to be certain.

If you have any questions or would like this search reworked in any way, please do not hesitate to contact me at the number or address listed above.



# STIC Search Results Feedback Form

**EIC 3700**

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

John Sims, EIC 3700 Team Leader  
308-4836, CP2-2C08

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 3730

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

**Comments:**

Drop off or send completed forms to STIC/EIC3700 CP2 2C08



Inventor  
Search

3/5/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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012339201 \*\*Image available\*\*  
WPI Acc No: 1999-145308/199913  
XRPX Acc No: N99-105825

**Orthotic balancing disc for inserting into footwear has top and bottom surface inclined at specific angle to each other**

Patent Assignee: EPSTEIN M (EPST-I)

Inventor: **EPSTEIN M**

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2329101	A	19990317	GB 9820027	A	19980915	199913 B
CA 2245218	A1	19991212	CA 2245218	A	19980817	200022
AU 9895187	A	20000608	AU 9895187	A	19981202	200035 N
US 6098319	A	20000808	US 9758828	A	19970915	200040
			US 9896946	A	19980612	
GB 2329101	B	20010613	GB 9820027	A	19980915	200134

Priority Applications (No Type Date): US 9896946 A 19980612; US 9758828 P 19970915; AU 9895187 A 19981202

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
GB 2329101	A		9 A43B-007/22	
CA 2245218	A1 E		A61F-005/14	
AU 9895187	A		A61F-005/14	
US 6098319	A		A61F-005/14	Provisional application US 9758828
GB 2329101	B		A43B-007/22	

Abstract (Basic): GB 2329101 A

NOVELTY - The disc (16) has top (32) and bottom (34) surfaces which are inclined at an angle of 2 degrees to 6 degrees with respect to each other.

DETAILED DESCRIPTION - The disc is flexible and has adhesive on one side. An INDEPENDENT CLAIM is included for an orthotic assembly.

USE - For inserting into foot wear to give a user enhanced biomechanical balance and weight distribution during standing and walking. For use in chiropractic, physical therapy, orthopedics, osteopathy, and general health care.

ADVANTAGE - Provides a universal device for providing balancing and weight distribution adjustment which is easily integrated with existing orthotic foot devices as well as into other **footwear** items or devices.

DESCRIPTION OF DRAWING(S) - The drawing shows a side view of an orthotic foot device deploying the balancing disc.

disc (16)  
top surface (32)  
bottom surface (34)  
pp; 9 DwgNo 3/4

Title Terms: ORTHOTIC; BALANCE; DISC; INSERT; **FOOTWEAR** ; TOP; BOTTOM; SURFACE; INCLINE; SPECIFIC; ANGLE

Derwent Class: P22; P32

International Patent Class (Main): A43B-007/22; A61F-005/14

International Patent Class (Additional): A61F-005/14

File Segment: EngPI

Set	Items	Description
S1	144	AU='EPSTEIN M':AU='EPSTEIN M M'
S2	5	AU='EPSTEIN M N':AU='EPSTEIN M Y'
S3	1	S1:S2 AND (FOOTWEAR? ? OR SHOE? ? OR BOOT? ?)

? show files

File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)

(c) 2003 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2003/May W04

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030529,UT=20030522

(c) 2003 WIPO/Univentio

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200334

(c) 2003 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

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Biblo  
Patents

7/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

014245083 \*\*Image available\*\*  
WPI Acc No: 2002-065783/200209  
XRPX Acc No: N02-106009

**Orthopedic athletic shoe that prevents ankle from twisting to injurious position while allowing full range of motion of ankle and foot**

Patent Assignee: LAMPKINS G W (LAMP-I)  
Inventor: LAMPKINS G W  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6328707	B1	20011211	US 94221381	A	19940329	200209 B

Priority Applications (No Type Date): US 94221381 A 19940329

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6328707	B1	11	A61F-005/00	

Abstract (Basic): US 6328707 B1

NOVELTY - The **shoe** comprises a sole, a **shoe**, a lower leg member adapted to be secured to a lower leg, an attachment device extending from the **shoe** to the lower leg member, the attachment having two ends, one end being attached to a **disc** (15) which is located in a housing (2). The **shoe** includes a further housing (14) attached to the other end of the attachment and the **shoe**, and a joint (4), the **disc** (15) being attached to the attachment by the joint. The orthopedic **shoe** prevents an ankle from twisting when the user lands off **balance**

USE - As an orthopedic **shoe**.

ADVANTAGE - Enables wearer to function normally in an uninhibited manner despite presence of the restraining device.

DESCRIPTION OF DRAWING(S) - The drawing shows rear view of the restraining device:

Housing (2)  
Joint (4)  
Housing (14)  
**Disc** (15)

pp; 11 DwgNo 1/13

Title Terms: ATHLETE; **SHOE**; PREVENT; ANKLE; TWIST; INJURY; POSITION;  
ALLOW; FULL; RANGE; MOTION; ANKLE; FOOT

Derwent Class: P32

International Patent Class (Main): **A61F-005/00**

File Segment: EngPI

7/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013772606 \*\*Image available\*\*  
WPI Acc No: 2001-256817/200126  
Related WPI Acc No: 1998-542341  
XRPX Acc No: N01-183116

**Orthotic band for treatment of neuro-muscular disorders, includes upper and lower portions biased by spring, to move circularly between limited and extended range of positions**

Patent Assignee: KENNEY J P (KENN-I)  
Inventor: KENNEY J P  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6206846	B1	20010327	US 97827604	A	19970328	200126 B
			US 98207855	A	19981208	
			US 99407912	A	19990929	

Priority Applications (No Type Date): US 99407912 A 19990929; US 97827604 A 19970328; US 98207855 A 19981208

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6206846	B1	27	A61F-005/00		Div ex application US 97827604 CIP of application US 98207855 Div ex patent US 5891068 CIP of patent US 6001074

Abstract (Basic): US 6206846 B1

NOVELTY - Flexible plastic band has bend line (366) between upper and lower portions to set specific **angle**. Upper and lower portions are fixed to head and vest, after moving head from limited range of position (LROM) to extended range of position (EROM). Spring fixed with upper and lower portions moves head towards LROM position causing **circular** movement between LROM and EROM positions by gradually loosening head.

DETAILED DESCRIPTION - Bend line is formed in the band by heating, bending and cooling, permits **angular** movement between upper and lower portions. Upper portion of plate is fixed to head piece (354) and lower portion to vest band (360). Spring is configured to provide no spring force when the upper portion of plate is in initial EROM **angular** position. Individual head is held by immobility in forward and downward **inclined** positions in LROM position. Spring is operative for pulling the head upwards and backwards to EROM position.

USE - For treatment of neuro-muscular disorders.

ADVANTAGE - Facilitates treatment of contracture due to immobility in effective manner, as plate with upper and lower portions attached respectively to head and vest, and is biased by spring.

DESCRIPTION OF DRAWING(S) - The figure shows **orthotic** band treating contracture in cervical region of spine with head.

Head piece (354)

Vest band (360)

Bend line (366)

pp; 27 DwgNo 17A/26

Title Terms: **ORTHOTIC**; BAND; TREAT; NEURO; MUSCLE; DISORDER; UPPER; LOWER; PORTION; BIAS; SPRING; MOVE; **CIRCULAR**; LIMIT; EXTEND; RANGE; POSITION

Derwent Class: P32

International Patent Class (Main): **A61F-005/00**

File Segment: EngPI

7/5/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012339201 \*\*Image available\*\*

WPI Acc No: 1999-145308/199913

XRPX Acc No: N99-105825

Orthotic balancing disc for inserting into footwear has top and bottom surface inclined at specific angle to each other

*the Patent*



Patent Assignee: EPSTEIN M (EPST-I)

Inventor: EPSTEIN M

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2329101	A	19990317	GB 9820027	A	19980915	199913 B
CA 2245218	A1	19991212	CA 2245218	A	19980817	200022
AU 9895187	A	20000608	AU 9895187	A	19981202	200035 N
US 6098319	A	20000808	US 9758828	A	19970915	200040
			US 9896946	A	19980612	
GB 2329101	B	20010613	GB 9820027	A	19980915	200134

Priority Applications (No Type Date): US 9896946 A 19980612; US 9758828 P 19970915; AU 9895187 A 19981202

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2329101	A		9	A43B-007/22	
CA 2245218	A1	E		A61F-005/14	
AU 9895187	A			A61F-005/14	
US 6098319	A			A61F-005/14	Provisional application US 9758828
GB 2329101	B			A43B-007/22	

Abstract (Basic): GB 2329101 A

NOVELTY - The **disc** (16) has top (32) and bottom (34) surfaces which are **inclined** at an **angle** of 2 degrees to 6 degrees with respect to each other.

DETAILED DESCRIPTION - The **disc** is flexible and has adhesive on one side. An INDEPENDENT CLAIM is included for an **orthotic** assembly.

USE - For inserting into foot wear to give a user enhanced biomechanical **balance** and weight distribution during standing and walking. For use in chiropractic, physical therapy, orthopedics, osteopathy, and general health care.

ADVANTAGE - Provides a universal device for providing **balancing** and weight distribution adjustment which is easily integrated with existing **orthotic** foot devices as well as into other **footwear** items or devices.

DESCRIPTION OF DRAWING(S) - The drawing shows a side view of an **orthotic** foot device deploying the **balancing disc**.

**disc** (16)  
top surface (32)  
bottom surface (34)  
pp; 9 DwgNo 3/4

Title Terms: **ORTHOTIC ; BALANCE ; DISC ; INSERT ; FOOTWEAR ; TOP ; BOTTOM ; SURFACE ; INCLINE ; SPECIFIC ; ANGLE**

Derwent Class: P22; P32

International Patent Class (Main): A43B-007/22; A61F-005/14

International Patent Class (Additional): A61F-005/14

File Segment: EngPI

7/5/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012217154 \*\*Image available\*\*

WPI Acc No: 1999-023260/199902

XRFX Acc No: N99-017905

**Vibrating massage system for footwear - has power supply mounted in compartment formed in tongue of shoe and connected to vibrators mounted in circular beds formed in sole of shoe**

Patent Assignee: REILLY P C (REIL-I)

Inventor: REILLY P C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5836899	A	19981117	US 96769838	A	19961220	199902 B

Priority Applications (No Type Date): US 96769838 A 19961220

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5836899	A		11	A61H-001/00	

Abstract (Basic): US 5836899 A

The massage system (10) incorporates a battery operated power supply (26) which is mounted in a compartment formed in the tongue of a **shoe** (16). A control button (52) is mounted on the power supply and has a cover (64). The power supply is connected to vibrators (20,22,24) which are mounted in **circular** beds formed in the sole (18) of the **shoe**. The power supply and the vibrators are connected by wires which are concealed in a flap formed in the upper portion of the **shoe**.

The wires are also disposed in air canals which are formed in the sole of the **shoe**. The location of the power supply in the tongue of the **shoe** maintains the normal **balance** of the **shoe** and enables a user to benefit from vibrating massage while standing, sitting, walking or running.

USE - For delivering dynamic vibrating massage to soles of user's feet while standing, sitting, running or walking.

ADVANTAGE - Can be easily installed or replaced by user. Maintains normal **balance** of **footwear**.

Dwg.6/15

Title Terms: VIBRATION; MESSAGE; SYSTEM; **FOOTWEAR** ; POWER; SUPPLY; MOUNT; COMPARTMENT; FORMING; TONGUE; **SHOE** ; CONNECT; VIBRATION; MOUNT;

**CIRCULAR** ; BED; FORMING; SOLE; **SHOE**

Derwent Class: P32; P33; S05; X27

International Patent Class (Main): A61H-001/00

International Patent Class (Additional): **A61F-005/14**

File Segment: EPI; EngPI

7/5/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012118152 \*\*Image available\*\*

WPI Acc No: 1998-535064/199846

XRPX Acc No: N98-417451

**Insole of shoe - consists of expansion part of oval -shape, curved portion provided in central thick portion**

Patent Assignee: TODA M (TODA-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10234417	A	19980908	JP 9754102	A	19970221	199846 B

Priority Applications (No Type Date): JP 9754102 A 19970221

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10234417	A		6	A43B-017/00	

Abstract (Basic): JP 10234417 A

The insole has S-shaped core material formed by a thin walled base edge, central thick portion and an end thin wall. The central thick portion has an **oval** -shape from the lip place of a wedge formed frame in the inner body to an intermediate portion of the metatarsal back and forth. The bottom of the insole body is curved upwards and gradually lowered towards central part.

USE - For high heeled **shoes** .

ADVANTAGE - **Balances** with contacting ground. Reduces pain in knee, lumbago due to distortion of bodies.

Dwg.4/4

Title Terms: INSOLE; **SHOE** ; CONSIST; EXPAND; PART; **OVAL** ; SHAPE; CURVE; PORTION; CENTRAL; THICK; PORTION

Derwent Class: P22; P32

International Patent Class (Main): A43B-017/00

International Patent Class (Additional): **A61F-005/14**

File Segment: EngPI

7/5/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011178709 \*\*Image available\*\*

WPI Acc No: 1997-156634/199715

XPX Acc No: N97-129320

**Bi-pivotal hinge for orthopaedic and orthotic use - provided with diamond shaped interchangeable combined extension and flexion metal insert stops**

Patent Assignee: YOUNG D E (YOUN-I)

Inventor: YOUNG D E

Number of Countries: 007 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 761186	A2	19970312	EP 96306312	A	19960830	199715 B
US 5662596	A	19970902	US 95521547	A	19950830	199741

Priority Applications (No Type Date): US 95521547 A 19950830

Cited Patents: No-SR.Pub

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 761186 A2 E 13 A61F-005/01

Designated States (Regional): DE ES FR GB IT SE

US 5662596 A 11 A61F-005/01

Abstract (Basic): EP 761186 A

The hinge (10) comprises a hinge body having front and back plates (18 & 20) disposed in parallel relation and defining space there between. These plates and arms have pivotal securing members (22 & 24) optimally disposed apart with regard to the physiology of the human knee with independently pivotally mounted hinge arms (14 & 16) each being limited in a discontinuous and incremental manner in both extension travel and flexion travel by means of an insert stop (100) having **angled** stop faces, each of which acts on a respective hinge arm in each direction.

The combination insert stop is symmetrical about a vertical apical axis and symmetrical or regular about a horizontal axis having body portions with concave radiused sides symmetrically disposed about a tangent to a **circle** centred on the intersection of these axes.

ADVANTAGE - Improved incremental motion limiting mechanism

Dwg.2/9

Title Terms: HINGE; ORTHOPAEDIC; **ORTHOTIC** ; DIAMOND; SHAPE; INTERCHANGE;  
COMBINATION; EXTEND; FLEXURE; METAL; INSERT; STOP  
Derwent Class: P32  
International Patent Class (Main): **A61F-005/01**  
File Segment: EngPI

7/5/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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011154405 \*\*Image available\*\*  
WPI Acc No: 1997-132329/199712  
XRAM Acc No: C97-042670  
XRPX Acc No: N97-109299

Footwear **sole for alleviating back pain - has smooth flat upper surface sloping downwardly from front to rear and upward peripheral wall which is higher at rear than front**

Patent Assignee: OYANEDEL NEIRA J (NEIR-I)  
Inventor: OYANEDEL NEIRA J  
Number of Countries: 019 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9703628	A1	19970206	WO 96ES140	A	19960628	199712 B
EP 793950	A1	19970910	EP 96920839	A	19960628	199741
			WO 96ES140	A	19960628	

Priority Applications (No Type Date): ES 95U1977 U 19950718

Cited Patents: ES 1023614; ES 2002778; US 3964181

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9703628	A1	S	14	A61F-005/14	

Designated States (National): US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC  
NL PT SE

EP 793950 A1 E 5 A61F-005/14 Based on patent WO 9703628  
Designated States (Regional): CH DE DK FR GB IT LI PT SE

Abstract (Basic): WO 9703628 A

A **footwear** sole for alleviating back pain is pref. of flexible material, partic. polyurethane and has a difference in level between the front (2) and rear (3) of its upper surface and an upward peripheral wall which is higher at the rear than at the front. The sole upper surface is smooth, **slopes** continuously downwards from front to rear, and can carry an orthopaedic or other insole.

ADVANTAGE - Corrects pelvic and spinal posture to alleviate back and sciatic pain and separate the vertebrae to relieve pressure on the **discs**.

Dwg.2/2

Title Terms: **FOOTWEAR** ; SOLE; ALLEVIATE; BACK; PAIN; SMOOTH; FLAT; UPPER;  
SURFACE; **SLOPE** ; DOWN; FRONT; REAR; UP; PERIPHERAL; WALL; HIGH; REAR;  
FRONT

Derwent Class: A83; P22; P32

International Patent Class (Main): **A61F-005/14**

International Patent Class (Additional): A43B-013/14

File Segment: CPI; EngPI

7/5/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011099395      \*\*Image available\*\*

WPI Acc No: 1997-077320/199707

Related WPI Acc No: 1995-327314

XRFX Acc No: N97-064193

Shoe **sole inserts for prolonged periods of standing - with heel and fore-foot pads which are resilient and compressible with elevated ridge extending diagonally across mid-foot area**

Patent Assignee: WOLVERINE WORLD WIDE INC (WOLR )

Inventor: BLISSETT M G; MERCADO B A

Number of Countries: 064 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9700030	A1	19970103	WO 96US9698	A	19960606	199707 B
AU 9662659	A	19970115	AU 9662659	A	19960606	199718
US 5625965	A	19970506	US 93143915	A	19931027	199724
			US 95490194	A	19950614	

Priority Applications (No Type Date): US 95490194 A 19950614; US 93143915 A 19931027

Cited Patents: US 1741419; US 1958097; US 3550597; US 4240214; US 5010661; US 568068; US 628836

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9700030 A1 E 20 A43B-013/38

Designated States (National): AL AM AU BB BG BR CA CN CZ EE FI GE HU IS JP KG KP KR LK LR LT LV MD MG MK MN MX NO NZ PL RO SG SI SK TR TT UA UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9662659 A A43B-013/38 Based on patent WO 9700030

US 5625965 A 9 A43B-013/38 CIP of application US 93143915

CIP of patent US 5448839

Abstract (Basic): WO 9700030 A

The insert comprises a flexible **shoe** sole having heel, midfoot and forefoot portions (12,14 and 16) with an under layer of polymeric foam type material bonded to an upper layer of cloth and thermoformed to the required configuration. Within the heel area is the calcaneal pad (22) which is resilient and compressible, **circular** in shape and is proud of the surrounding area of the insert.

Within the forefoot area is the kidney shaped metatarsal pad (30) similar in construction to the heel pad. Extending from the lateral side of the metatarsal pad and going diagonally across the midfoot portion to the medial side of the calcaneal pad is a vertically elevated ridge (40). Constructed of thicker polymer the pad tapers down on both side of the ridge.

USE/ADVANTAGE - For shop workers, cashiers, e.t.c. Considerably lessens fatigue of the foot and leg muscles during prolonged periods of standing.

Dwg.1/1

Title Terms: **SHOE** ; SOLE; INSERT; PROLONG; PERIOD; STAND; HEEL; FORE; FOOT ; PAD; RESILIENT; COMPRESS; ELEVATE; RIDGE; EXTEND; DIAGONAL; MID; FOOT; AREA

Derwent Class: P22; P32

International Patent Class (Main): A43B-013/38

International Patent Class (Additional): A43B-023/00; **A61F-005/14**

File Segment: EngPI

7/5/13 (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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003786768

WPI Acc No: 1983-782995/198340

Related WPI Acc No: 1984-300094; 1985-043810; 1985-147583

XRPX Acc No: N83-178202

**Orthopaedic foot splint for attachment to shoes - has pair of shoe engaging plates connected by swivel joint to connector having two relatively pivotal sections**

Patent Assignee: BIORESEARCH INC (BIOR-N)

Inventor: KURTZ R J; LICAUSI J

Number of Countries: 009 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8303194	A	19830929				198340 B
AU 8315113	A	19830929				198403
EP 103641	A	19840328	EP 83901479	A	19830316	198414
JP 59500456	W	19840322				198418
CA 1189409	A	19850625				198530
ES 8600045	A	19860101	ES 520696	A	19830316	198613
IL 68175	A	19860530				198639
AU 8810216	A	19880428				198825
EP 103641	B	19890118				198903
DE 3378951	G	19890223				198909
IT 1166446	B	19870429				198938

Priority Applications (No Type Date): US 84611713 A 19840518; US 82358531 A 19820316; US 83557215 A 19831202

Cited Patents: US 2482646; US 2585342; US 2630801; US 2963020; US 3109424; US 3487829; US 4249523; US 3931817

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 8303194 A E 17

Designated States (National): AU JP

Designated States (Regional): DE FR GB

EP 103641 A E

Designated States (Regional): DE FR GB

EP 103641 B E

Designated States (Regional): DE FR GB

Abstract (Basic): WO 8303194 A

The orthopaedic foot splint which is attached to a user's shoes includes a pair of shoe engaging plates whose longitudinal axes are parallel to that of the shoe. An elongate connector for horizontally interconnecting the plates includes two elongate sections. The sections are connected by a joint allowing their relative pivotal movement.

A swivel joint between the connector and at least one plate allows pivotal movement of the plate about a vertical axis w.r.t. the connector. The joint includes a shoulder to selectively restrict pivotal movement. The toe and heel of the shoe can thus only swivel away from the connector from an initial position, where the plate longitudinal axis is approx. perpendicular to the connector axis.

Dwg.1/7

Title Terms: ORTHOPAEDIC; FOOT; SPLINT; ATTACH; SHOE ; PAIR; SHOE ; ENGAGE; PLATE; CONNECT; SWIVEL; JOINT; CONNECT; TWO; RELATIVELY; PIVOT; SECTION

Derwent Class: P32

International Patent Class (Additional): A61F-003/00 ; A61F-005/37

File Segment: EngPI

7/5/14 (Item 14 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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003483122

WPI Acc No: 1982-31085E/198216

**Orthopaedic insole with partially malleable arch support - packed with solid, particulate or cellular material which remains deformable**

Patent Assignee: KONSUMEX K V (KONS-I); KONSUMEX KUELKERESKEDELMI VALL (KONS-N)

Number of Countries: 018 Number of Patents: 019

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
BE 891426	A	19820331				198216 B
DE 3147589	A	19830609				198324
GB 2111821	A	19830713	GB 8136833	A	19811207	198328
SE 8107194	A	19830704				198329
AU 8178270	A	19830609				198330
FR 2518399	A	19830624				198330
NL 8105747	A	19830718				198332
NO 8104334	A	19830711				198334
FI 8103917	A	19830729				198336
BR 8200113	A	19830913				198343
DK 8105367	A	19831227				198407
US 4431003	A	19840214	US 82338215	A	19820111	198409
CA 1179126	A	19841211				198503
RO 85213	A	19841030				198518
GB 2111821	B	19850703				198527
CH 655232	A	19860415				198621
SU 1281157	A	19861230	SU 3368307	A	19811221	198732
IT 1140364	B	19860924				198820
AT 8105164	A	19880615				198827

Priority Applications (No Type Date): BE 891426 A 19811210; GB 8136833 A 19811207

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
BE 891426	A		13		

Abstract (Basic): BE 891426 A

An orthopaedic insole is constructed with two flexible superficial blisters to support the arch of the foot, where the smaller of the blisters is located within the larger blister and is filled with a matl. (I) which remains deformable. The support provided remains malleable to suit the shape and movement of the foot under different conditions, e.g. relaxed, running, standing, etc.

The leading edge of the blister is located at a distance (B) from the heel end of the insert corresponding to 2/3 (+5%) of the overall length (H) of the shoe cavity, and extends over a distance (c) of 4/9 H (+10%). The smaller pocket is pref. **circular** and tangential with the leading edge of the larger pocket on an axis offset from that of the shoe by 5-15 deg.

Pref. the solid filler (I) includes "AEROSTAT VII", (RTM). The sole base is of 1mm thick fibrous leather, e.g. "PERO" (RTM). Esp. for shoes, slippers etc. to support feet with flat, weak or fallen arches.

Title Terms: ORTHOPAEDIC; INSOLE; MALLEABLE; ARCH; SUPPORT; PACK; SOLID; PARTICLE; CELLULAR; MATERIAL; REMAINING; DEFORM

Derwent Class: A83; P22; P32

International Patent Class (Additional): A43B-007/14; A43B-013/40;  
A43B-017/14; **A61F-005/14**  
File Segment: CPI; EngPI

7/5/15 (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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001916774

WPI Acc No: 1978-E6025A/197824

**Orthopaedic shoe heel rotating under pressure - has rotary sole and elastic skirt static and rotatable crown wheels with sawteeth**

Patent Assignee: FOSSERAT J P (FOSS-I); THUILLARD Y (THUI-I)

Inventor: YVES T

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CH 599766	A	19780531				197824 B
DE 2818986	A	19781102				197845
FR 2388539	A	19781229				197905
GB 1593044	A	19810715				198129

Priority Applications (No Type Date): CH 775353 A 19770429

Abstract (Basic): CH 599766 A

The orthopaedic **footwear** has a heel which rotates as pressures are applied during walking. Rotation is effected by a combination of relative vertical displacement and circumferentially aligned and **inclined** contact faces. The **inclined** contact faces, in saw-tooth crown-wheel form, are completely enclosed promoting durability and long life.

The heel may comprise two similar **discs** (1, 2) with axially projecting stub-spindles (3, 4). One (2) of the **discs** is fixed to the sole of the **shoe**, and its projecting spindle (3) has a blind axial hole. The spindle (3) of the counter-**disc** (1) fits in the hole, an elastic skirt (5) joins the rims of the two **discs** (1, 2), and a similar crown-wheel (7, 8) is mounted co-axially about each spindle (3, 4). The crown wheel teeth have **inclined** contacting faces.

Title Terms: ORTHOPAEDIC; **SHOE**; HEEL; ROTATING; PRESSURE; ROTATING; SOLE; ELASTIC; SKIRT; STATIC; ROTATING; CROWN; WHEEL; SAWTOOTH

Derwent Class: P22; P31; P32

International Patent Class (Additional): A43B-007/00; A43B-013/28;

A43B-021/24; A61B-005/14; **A61F-005/14**

File Segment: EngPI



Set	Items	Description
S1	888208	DISC? ? OR DISK? ? OR OVAL? ? OR CIRCLE? ? OR OVOID? ? OR - CIRCULAR?
S2	1539127	BALANC? OR ANGLE? ? OR INCLIN? OR SLANT? OR TILT??? OR SLO- P??? OR ANGULAR?
S3	99856	SHOE? ? OR FOOTWEAR? ? OR BOOT? ? OR ORTHOTIC? OR ORTHOS?S OR SNEAKER? ?
S4	4	S1(S)S2(S)S3 AND IC=A61F
S5	15	S1 AND S2 AND S3 AND IC=A61F
S6	15	IDPAT (sorted in duplicate/non-duplicate order)
S7	15	IDPAT (primary/non-duplicate records only)

? show files

File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)

(c) 2003 JPO & JAPIO

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200334

(c) 2003 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

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F7 Patents

6/5,K/2 (Item 2 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00837907

**IMPROVEMENTS TO SHOE SOLES FOR RELIEVING THE PAIN IN THE BACK**

PATENT ASSIGNEE:

Oyanedel Neira, Jorge, (2278780), El Olivar, 12, Anoreta-Golf, Rincon de la Victoria, 29738 Malaga, (ES), (applicant designated states: CH;DE;DK;FR;GB;IT;LI;PT;SE)

INVENTOR:

Oyanedel Neira, Jorge, El Olivar, 12, Anoreta-Golf, Rincon de la Victoria, 29738 Malaga, (ES)

PATENT (CC, No, Kind, Date): EP 793950 A1 970910 (Basic)  
WO 9703628 970206

APPLICATION (CC, No, Date): EP 96920839 960628; WO 96ES140 960628

PRIORITY (CC, No, Date): ES 951977 950718

DESIGNATED STATES: CH; DE; DK; FR; GB; IT; LI; PT; SE

INTERNATIONAL PATENT CLASS: A61F-005/14 ; A43B-013/14

ABSTRACT EP 793950 A1

Improvements to shoe soles intended to relieve the pain in the back, the soles being specially designed for the housing of feet insoles, held by any known method, and made, although not restricted to it, of natural material, such as polyurethane or the like, being the type that presents a different level between the rear part (5) and the fore part (4) the rear part being lower. The disclosed soles incorporate a wall (2) which surrounds the external edge of the platform and which is raised (3) progressively as it approaches the rear part, without being restricted to a predetermined height at said wall.

ABSTRACT WORD COUNT: 106

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 000524 A1 Date of dispatch of the first examination report: 20000406  
Application: 970528 A1 International application (Art. 158(1))  
Refusal: 021023 A1 Date European patent application was refused: 20020426  
Application: 970910 A1 Published application (A1with Search Report ;A2without Search Report)  
Examination: 971022 A1 Date of filing of request for examination: 970804

LANGUAGE (Publication,Procedural,Application): English; English; Spanish

...SPECIFICATION higher amount of population.

It serves as an outsole for any kind of insole for **shoes**, whether orthopaedical or not. It is made of a flexible substance that may be polyurethane...

...different level of height between the anterior and posterior portion of the platform, as a **slope** that goes down as it runs down from anterior to posterior. This difference will make...

...plane. The Posture Reflex will lead a readjustment of the body's posture to keep **balance** and by this act, vertebral separation, specially vertebral bodies and processes of the lumbar vertebrae. Pressure is then released from the intervertebral **disc** and intermediate and surrounding

structures, preventing the possibility of inflammatory reactions due to contact with...

6/5,K/6 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00773810 \*\*Image available\*\*

**FOOT PROSTHESIS**

**PROTHESE POUR PIED**

Patent Applicant/Assignee:

GRAMTEC INNOVATION AB, Strombacken 1, S-511 56 Kinna, SE, SE (Residence),  
SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

GRAMNAS Finn, Hastskovagen 5, S-511 56 Kinna, SE, SE (Residence), SE  
(Nationality), (Designated only for: US)

Legal Representative:

GOTEBORGS PATENTBYRA DAHLS AB, Sjoporten 4, S-417 64 Goteborg, SE

Patent and Priority Information (Country, Number, Date):

Patent: WO 200106965 A1 20010201 (WO 0106965)

Application: WO 2000SE1475 20000710 (PCT/WO SE0001475)

Priority Application: SE 992653 19990709

Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY  
CA CH CN CR CU CZ CZ (utility model) DE DE (utility model) DK DK (utility  
model) DM DZ EE EE (utility model) ES FI FI (utility model) GB GD GE GH  
GM HR HU ID IL IN IS JP KE KG KP KR KR (utility model) KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SK  
(utility model) SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **A61F-002/66**

Publication Language: English

Filing Language: Swedish

**English Abstract**

The present invention relates to a foot prosthesis comprising a front  
foot portion (1), a rear foot portion (2) and an intermediate foot  
portion (3) formed by a number of rods (8) of resilient material, which  
rods extend in the longitudinal direction of the foot prosthesis.

According to the invention the rods (8) are rotatably connected with at  
least one of the front and rear foot portions (1, 2).

Legal Status (Type, Date, Text)

Publication 20010201 A1 With international search report.

Examination 20010412 Request for preliminary examination prior to end of  
19th month from priority date

**Detailed Description**

... the rods can have a form other than straight, e.g. when using high  
heeled **shoes**, the front end portions of the rods can constitute an  
**angle** to the rest of the rods. If the rods are mounted in sleeves of low  
friction material, the rods can have other cross sections than **circular**  
assuming that the

6/5,K/7 (Item 7 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00224016

**TRIPOD SUPPORT FOR THE HUMAN FOOT**  
**SUPPORT TRIPODE CONCU POUR LE CONFORT DU PIED**

Patent Applicant/Assignee:

INSOLE CONTROL INC,

Inventor(s):

KANTRO Scott R,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9221258 A1 19921210

Application: WO 92US112 19920117 (PCT/WO US9200112)

Priority Application: US 91292 19910531

Designated States: AT BE CA CH DE DK ES FR GB GR IT JP KR LU MC NL SE

Main International Patent Class: A43B-013/38

International Patent Class: **A61F-05:14**

Publication Language: English

English Abstract

A cushion to provide tripodal support at the three gait points (11, 12, 13) of the human foot to alleviate pedal dysfunction and associated leg discomfort resulting from pregnancy, obesity, spinal deformity and the like. The cushion comprises support cushions positioned at points corresponding to the locations of the posterior calcaneus (19), the calcaneal-cuboid region (20) and the base of the first metatarsal bone (21) of a human foot. The support cushions are made of polymeric foam having a density greater than that of a surrounding insole (14) and are positioned to form an obtuse triangle of support that directs the forces generated by walking across the foot so as to provide a near functionally perfect gait. The cushions may be separately adhered to the sock lining within a shoe or formed as part of an insole (14) for temporary or permanent placement in incorporation as part of a shoe construction.

Claim

... posterior end of the first metatarsal bone, said support means comprising cushions positionable within a **shoe** at points corresponding to said locations and having densities greater than the surrounding material of said **shoe**, 3 1 The method of claim 31 wherein said cushions. comprise:

- a. a heel cushion of semi- **circular** configuration and a rearward taper located beneath the posterior calcaneus,
- b. a cuboid cushion having...

...the cuboid bone and rotationally 7 positioned such that said taper is directed at an **angle** 8 relative to the longitudinal axis of said foot toward the 9 posterior end of...

6/5,K/8 (Item 8 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00223063

**PROSTHETIC FOOT WITH HEEL ADJUSTEMENT MECHANISM**

**PROTHESE POUR LE PIED, COMPRENANT UN MECANISME DE REGLAGE DE TALON**

Patent Applicant/Assignee:

COLLEGE PARK INDUSTRIES INC,  
ROBINSON David,  
SCHEY Michael S,  
ROBINSON Eric L,  
WOOD David B,

Inventor(s):

SCHEY Michael S,  
ROBINSON Eric L,  
WOOD David B,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9220305 A2 19921126

Application: WO 92US3931 19920511 (PCT/WO US9203931)

Priority Application: US 91556 19910510; US 91557 19910510

Designated States: AT AT AU BB BE BF BG BJ BR CA CF CG CH CI CM DE DE DK  
DK ES ES FI FR GA GB GB GN GR HU IT JP KP KR LK LU LU MC MG ML MR MW NL  
NL NO PL RO RU SD SE SE SN TD TG US

Main International Patent Class: **A61F-002/66**

Publication Language: English

**English Abstract**

A prosthetic foot (10) includes an ankle member (12), a heel member (14) and a toe member coupled to each other for relative pivotable movement with the pivotable movement resisted by elastomeric pads (24), (26), and (28). The heel and ankle members are connected through a joint (18) allowing for translational and pivotable torsional motion of the ankle with respect the heel and provided with limit stops in the axle and the side walls of the heel member to limit the torsional and translation motion of the ankle joint. The toe member is formed symmetrically to be used for left and right feet with symmetrically positioned and mirror imaged for sections. A wedge member (154) can be mounted on top of the ankle member to accomodate different shoe heel heights. A removable member (130) affixed to the heel member can place a preload in compression on elastomeric pad (26). The member (130) may be removed to allow the toe member to pivot downwardly beyond its limit stop for repair and replacement of the pad (26).

**Claim**

... claim 10 further characterized by:

said one end of said elastomeric pad being substantially **oval** in shape with long sides of said **oval** having outwardly extending ears for engagement with said recess. 13e A prosthetic foot having an...

...surface for engagement to a prosthetic leg, and a canted lower surface at a preselected **angle** corresponding to a preselected heel height of a **shoe**, 14w A prosthetic foot ...prosthetic foot as defined in claim 15 further characterized by: said removable members having an **inclined** surface to force said forward section of said toe member upwardly as said removable...

Set	Items	Description
S1	406236	DISC? ? OR DISK? ? OR OVAL? ? OR CIRCLE? ? OR OVOID? ? OR - CIRCULAR?
S2	560754	BALANC? OR ANGLE? ? OR INCLIN? OR SLANT? OR TILT??? OR SLO- P??? OR ANGULAR?
S3	39162	SHOE? ? OR FOOTWEAR? ? OR BOOT? ? OR ORTHOTIC? OR ORTHOS?S OR SNEAKER? ?
S4	11	S1(S)S2(S)S3 AND IC=A61F
S5	11	IDPAT (sorted in duplicate/non-duplicate order)
S6	<del>10</del>	<del>IDPAT (primary/non-duplicate records only)</del>
S7	256	S1 AND S2 AND S3 AND IC=A61F

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File 348:EUROPEAN PATENTS 1978-2003/May W04

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File 349:PCT FULLTEXT 1979-2002/UB=20030529,UT=20030522

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Language: **English** -- Date: **Before September 1997** -- Block Offensive Content: **Never** [ [Edit this Search](#) ]

**WEB RESULTS by Google** (Showing Results 1 - 10 of 18)

1. untitled

... Once a first **round** of ideas had been completed the meeting adjourned for ...  
one joint activated Station 3: A prototype of our exoskeletal **orthotic** system  
equipped ...

[www.asel.udel.edu/robotics/orthosis/publ/t\\_and\\_d.ps](http://www.asel.udel.edu/robotics/orthosis/publ/t_and_d.ps) - 0 B

2. untitled

... He has designed what he calls a "kinetic wedge" to be put under the metatarsal arch, usually  
**orthotic**. It's not the usual **round** lump found as a ...

[www.chiro.org/chiro-list/newsfile/knee-crp.txt](http://www.chiro.org/chiro-list/newsfile/knee-crp.txt) - 39 KB

3. AIM Communications Service

... The announcement came at the end of the latest **round** of annual ... Paul Richardson, country  
the NGO Prosthetic and **Orthotic** Worldwide Education and ...

[www.geocities.com/Paris/1661/aim18.html](http://www.geocities.com/Paris/1661/aim18.html) - 23 KB

4. IHS

... Size of nearest large city/town: 15 000 year **round** and 30 000 in ... Unique Areas of Therapy  
Involvement: Sports Medicine, **Orthotic**, Prosthetic Work, Research ...

[www.cc.nih.gov/rm/pt/ihs.htm](http://www.cc.nih.gov/rm/pt/ihs.htm) - 80 KB

5. Department of Education

... rather than an option, the experience of the next **round** of projects that ... training regimens,  
pharmacologic treatments, and the use of **orthotic** and prosthetic ...

[www.ed.gov/legislation/FedRegister/announcements/1997-2/050997a.pdf](http://www.ed.gov/legislation/FedRegister/announcements/1997-2/050997a.pdf) - 0 B

6. What's New With NCSA Mosaic: Archives for July 1995

... Manitou Springs, CO, US This lovely Victorian town offers year **round** activities with ... Balanc  
Front Page, Dallas, TX, US Introduces the Alzner **Orthotic**. ...

[www.tesre.bo.cnr.it/Services/Local/WhatsNew/95/whats-new-9507.html](http://www.tesre.bo.cnr.it/Services/Local/WhatsNew/95/whats-new-9507.html) - 101 KB

7. untitled

... Were these brinelling (embossed through force) they would be shiny and **round**. ... way to re  
the ball of the foot is to use a custom **orthotic** and/or a ...

[sun1000.pwr.wroc.pl/rowery/part3.txt](http://sun1000.pwr.wroc.pl/rowery/part3.txt) - 83 KB

8. untitled

... there were only four Physiotherapy, one Occupational Therapy and two **Orthotic** department  
entail, only that we would take off and cruise **round** the Big ...

collection.nlc-bnc.ca/100/202/300/ability/1994/94v2n4/94-v2n4.txt - 101 KB

9. Undergrads tops for community service Biomedical program receives ...

... Among year-**round** opportunities are tutoring in city schools, visiting with nursing home residents, befriending families at a women's shelter, building houses ...

www.rochester.edu/pr/Currents/V24/11-25-96.pdf - 0 B

10. untitled

... generation of effective exoskeletal robotic devices, called powered **orthotic** devices, which ... diamond-shape signs signify danger, and **round** ones stand ...

mail.nfbnet.org/files/braille\_monitor/BRLM9401.TXT - 101 KB

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